

u-center v8.15

Public release notes

Abstract

Release notes containing general information, features, improvements, changes and known limitations for u-center v8.15.

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Document Information**Title** u-center v8.15**Subtitle****Document type** Release Notes**Document number** UBX-15012167**Revision and date** R01 16-March-2015**Document status** Production Information**Document status explanation**

Objective Specification Document contains target values. Revised and supplementary data will be published later.

Advance Information Document contains data based on early testing. Revised and supplementary data will be published later.

Early Production Information Document contains data from product verification. Revised and supplementary data may be published later.

Production Information Document contains the final product specification.

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1 General Information

1.1 Released Files

The following table lists the files that have been released.

File	Description
u-center_v8.15.exe	u-center, release build, installer incl. u-blox Windows USB CDC-ACM driver v1.2.0.8 and u-blox Windows USB sensor driver v2.1.0.5
u-center_v8.15_public_release_notes_(UBX-15012167).pdf	
u-center_user_guide_(UBX-13005250).pdf	

1.2 Version and Checksum of Files

The following table lists the versions and the checksums of the files inside the files as in [Chapter 1.1](#).

File	Version	MD5
u-blox Windows USB CDC-ACM driver	1.2.0.8	
u-blox Windows USB sensor driver	2.1.0.5	
u-Center.exe	8.15	b7563efb4ab8b3c2c688b1d52c198931
flash.xml	84524	33f3fe346ffe1cb262ab8f5787dd3b6a
flash.xml_changelog.txt		dbdf5bff7c7cb2a83f71b5cc757397e0
flash.txt	59977	b49a4b5d33efa113737208e788cf3afc
NMEA.dll	8.15	b430b6db476361faf047e62f6e05431c
UBX.dll	8.15	1bb9e313016cc612cb3ea1682a9ac469

1.3 Revision Number

The u-center has the revision number **92685**.

1.4 Released Documentation

- Public release notes (UBX-15012167)
- u-center user guide (UBX-13005250)

2 Features

2.1 Supported Microsoft Windows versions

u-center v8.15 will run on Microsoft Windows Vista up to and including Windows 10.

2.2 Supported Receiver Generations

u-center v8.15 can update the firmware of the following receiver generations:

- u-blox 5 with ROM 3.00, ROM 4.00, ROM 5.00
- u-blox 6 with ROM 6.00, ROM 6.02, ROM 7.03
- u-blox 7 with ROM 0.10, ROM 0.11, ROM 0.14, ROM 1.00
- u-blox M8 with ROM 0.21, ROM 0.22, ROM 2.01



Antaris based receivers are **no longer** supported.

2.3 Supported Protocol Specification Version

u-center v8.15 supports the u-blox protocol specification from version 10.00 up to and including version 17.00.

2.4 External hardware support

The following external hardware is supported to interface with the receiver:

Interface	Device	DLL version
DDC/I2C	Totalphase Aardvark I2C/SPI Host Adapter	aardvark.dll v5.15 for Windows 32-bit
DDC/I2C	Diolan U2C-12 USB-I2C/SPI/GPIO Adapter	i2cbrdg.dll v1.0.0.9 for Windows 32-bit
SPI	Totalphase Aardvark I2C/SPI Host Adapter	aardvark.dll v5.15 for Windows 32-bit
SPI	Totalphase Cheetah SPI Host Adapter	aardvark.dll v5.15 for Windows 32-bit
SPI	Diolan U2C-12 USB-I2C/SPI/GPIO Adapter	i2cbrdg.dll v1.0.0.9 for Windows 32-bit

2.5 Multiple GNSS AssistNow Service

u-center v8.15 includes the multiple GNSS AssistNow Service (libMGA) version 1.02.

2.6 Debug Messages

The following messages will be enabled or polled when pressing the 'Debug Messages' button:

- Any UBX-INF
- UBX-ESF-MEAS
- UBX-ESF-STATUS
- UBX-MON-MSGPP
- UBX-NAV-CLOCK
- UBX-NAV-PVT
- UBX-NAV-SOL
- UBX-NAV-SVINFO
- UBX-RXM-SVSI (every 30 seconds)
- UBX-MON-HW (polled)
- UBX-MON-EXCEPT (polled)
- and additional u-blox debug messages

3 Improvements and Changes

3.1 Version 8.15

- AssistNow Online fixed (reported wrong username/password)

3.2 Version 8.14

- Update of UBX-TIM-TOS handling: allow enabling/disabling
- Update of UBX-ESF-STATUS: add error status field
- Update of UBX-TIM-VCOCAL: make command 'STOP' public
- Update of UBX-CFG-MSG list: matching protocol specification
- Update of UBX-CFG-RST: Allow 'User Defined' option, make SFDR and TCT public
- Update of UBX-MON-EXCEPT
- Add keyboard shortcut for firmware update dialog (Ctrl-u)
- Add toolbar icon for firmware update dialog
- Add status text for 'Sky View': azimuth and elevation
- Make configuration of antenna supervisor pins public
- Negative Course over Ground values can now plotted in the ChartView
- Google Earth view saves KML file as ASCII text
- Default name for exporting as KML file based on time and date
- Save GNSS configuration to file fixed
- Switch to UNICODE
- Update of shortcuts
- Update TotalPhase Cheetah driver to v3.08
- Rename of database entry 'TTAG (from ITOW)' to iTOW (according to protocol specification)
- Fix of GPS time from UBX-NAV-TIMEBDS
- Tooltip delay set to 200ms
- Minor fixes

3.3 Version 8.13

- Support of messages for M8L products
- Update of graphs for UBX-ESF-MEAS
- Visual improvements when using several monitors
- Update of statistic view (search and sort function)
- Fix problem with empty entries in table view
- Add option to hide tree and HEX view
- Add File transfer dialog
- Update of deviation map
- Show IRNSS flags

3.4 Version 8.12

- Update UBX-CFG-PM2
- Update UBX-CFG-TXSLOT
- Update UBX-NAV-TIMEUTC
- Update UBX-TIM-TP
- Update UBX-TIM-TM2
- Update UBX-TIM-VCOCAL

- Update UBX-ESF-MON
- Update UBX-MON-EXCEPT
- Update UBX-MON-HW
- Add support for LEA-M8T messages and firmware
- Add support for UTC standard (NTSC)
- Add Qi to database
- Add more EKF fields to database
- Add 2D error ellipse to database
- Odometer fields are now public in database
- Improve speed for deleting database
- Workspace and view configuration format changed
- Fix mismatch between binary console and message view
- Fix problem when saving map view
- Add extra line in consoles to separate data packets
- Add tooltip for satellite level view
- Add direction indicator of messages
- Add possibility to filter message tree by protocol specification versions
- Fix possible memory leak problems

3.5 Version 8.11

- Update of UBX-CFG-SMGR
- Update of UBX-CFG-DOSC
- Update of UBX-CFG-SMGR
- Update of UBX-CFG-ESRC
- Update of UBX-CFG-TP5
- Update of UBX-NAV-STATUS
- Update of UBX-TIM-TOS
- Add UBX-MON-SMGR, UBX-TIM-SMEAS and UBX-TIM-FCHG to periodic poll messages
- Set UBX-CFG-DOSC to public
- Set UBX-CFG-ESRC to public
- Set UBX-CFG-SMGR to public
- Set UBX-MON-SMGR to public
- Set UBX-TIM-DOSC to public
- Set UBX-TIM-FCHG to public
- Set UBX-TIM-SMEAS to public
- Set UBX-TIM-TOS to public
- Set UBX-TIM-VCOCAL to public
- Set UBX-TIM-VCOFF to public
- Link to User's Guide in the help menu
- Fix problem with connection tool tip
- Fix problem with Google Earth plug-in when altitude = null
- Add option to align time-pulse to BeiDou or GLONASS time in UBX-CFG-TP5 (FTS product only)
- Fix problem with x axes label
- Adding the option to continuously update the receiver with MGA data
- Adding pop-up message when connection to receiver fails
- Improve resolution of position and velocity data storage and plots
- Update of MGA online dialog
- NMEA strict 82 characters only applicable for UBX-CFG-NMEA-DATA2

- Fix possible memory leak problem for external interface devices

3.6 Version 8.10

- Update of UBX-MON-GNSS dialog
- Update of UBX-CFG-NAV5 dialog (added UTC standard configuration)
- Update of UBX-CFG-PRT dialog (renaming Pin to PIO)
- Set UBX-MGA-QZSS to public
- Set UBX-UPD-SOS to public
- Set UBX-LOG-RETRIEVE, UBX-LOG-RETRIEVEPOS,UBX-LOG-RETRIEVESTRING, UBX-LOG-RETRIEVEPOSEXTRA to public
- Rename of UBX-NAV-ODORESET to UBX-NAV-RESETO
- Make UDP and TCP client public again
- Fix localisation problem
- Fix problem when saving a log file from a network connection (invalid characters)
- Add menu option for AssistNow online and offline
- Add support for tool tips in message views
- Remove of Antaris support

3.7 Version 8.01

- Update of UBX-CFG-NAV5 dialog
- Update of UBX-NAV-AOPSTATUS dialog
- Update of UBX-NAV-HNR support
- Update of UBX-NAV-SAT dialog: ANO/AOP was switched
- Update of UBX-RXM-SFRBX dialog
- Support for UBX-EST-MON version 2
- Support for ROM 2.01
- Firmware update mechanism improvements (file system, new settings,)
- Added Timemark 1 and 2 edge information and time pulse quantization error to public chart usage
- Update of network connection menu
- Added command line option to connect to receiver
- Fix problem with 'Dump receiver diagnostic' in u-center
- Update of help dialog
- Update of database export to Google Maps HTML file (fix stack overflow in IE8)
- MGA dialog:
 - o Button in u-center to request a token
- Support for 50/250bps IMES
- ADR updates:
 - o Sensor-to-vehicule frame misalignment angle
 - o Yaw misalignment angle updates

3.8 Version 8.00

- Add UBX-CFG-HNR and UBX-NAV-HNR
- Fix UBX-CFG-PRT dialog: make 'Extended time-out' public
- Update of UBX-CFG-NMEA dialog
- Update of UBX-ESF-MEAS dialog
- Update of UBX-CFG-MSG dialog
- Update of NMEA-GSV
- NMEA-GSA proper handling of several messages (multi GNSS support)

- libMGA: minor fixes
- MGA dialog
 - o Set smart flow control as default
 - o Fix crash
 - o Add UBX-MGA-INI-EOP to known messages
 - o Make download button the default
- Add 3D button and support in Google Earth View
- Add zooming feature for Chart view (Ctrl + mouse wheel = zoom in/out, left mouse double click = fit)
- Reset TTFB when receiver is cold/warm/hot started
- Renaming

4 Known Limitations

4.1 Known Issues

- Enumerating the ports on a computer with many ports can take long
- Using protocol filter with silent / no receiver results in empty message tree

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